



Wind Powering America

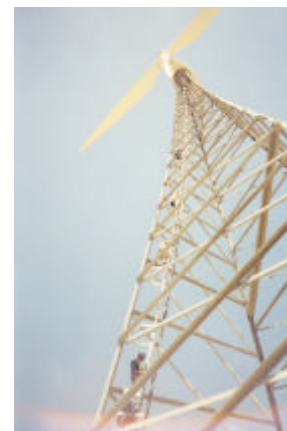
Newscast
June 2000

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WIND POWERING AMERICA HIGHLIGHTS

Windpower 2000 Conference. The Wind Powering America team was represented at Windpower 2000, the premier wind-related conference in the U.S. "Team Wind" gave and supported preparation of a number of presentations related to the Initiative to panels on Federal facility wind purchases, remote applications of wind, small wind industry, turbine verification, and Dan Reicher's plenary session and Wind Powering America panel remarks. Team Wind also held a series of formal and informal team meetings to refine plans for future federal load aggregation efforts, support for turbines on Tribal lands, efforts on state policies, upcoming wind farm groundbreakings, and participation in rural wind workshops over the next few months. The Team also toured a nearby wind farm and scaled a 750kw Zond turbine mounted on a 200 ft. lattice tower, truly taking the technology to heart.



Denver Area Federal Agency Wind Power Purchase. On April 27, Secretary Richardson announced the largest commitment ever to purchase electricity generated by windpower by regional offices of federal facilities in the Denver area. Lead by DOE's Golden Field Office, Denver Regional Office, and NREL's Wind Powering America and FEMP staff, over 30 federal agencies committed to purchase over 10MW of wind power. DOE offices will help the agencies pay for the additional cost of power through efficiency savings. Wind Powering America team members played critical roles in this exercise, and are working with the Denver aggregation team to develop a toolkit that can be used in other cities and regions to capture similar opportunities for wind purchases by federal facilities. Team Wind will also work closely with the Federal Energy Management Program and GSA to refine a list of the target cities and areas with the best opportunity for replication of this effort via the EERE Regional Offices.

DOE Awards \$2.7 Million in Wind Funding. On May 1, DOE announced \$2.7 million in grants to community-based organizations and projects to promote the development of wind energy across the U.S. by examining the potential benefits of wind development. The recipients from nine states were selected as a result of two competitive solicitations issued by the Department for projects targeting wind energy economic impact studies, information, and outreach. The funding will assist key decision-makers in state and local government, the electric utility industry, and the financial community in understanding the potential applications of wind energy. Select winners include NARUC, Land and Water Fund of the Rockies, University of North Dakota's Energy and

Environmental Research Center, Western Interstate Energy Board, NCSL, NASEO, MSB Energy Associates, Institute for Agriculture and Trade Policy, the State of Iowa's Department of Natural Resources and New Mexico's State Energy Office.

Dedication of the Green Mountain Wind Farm. Philadelphia Regional Office staff attended the formal dedication of the 10.4 megawatt Green Mountain Wind Farm, one of the largest wind farms in the East, outside the small town of Garrett, PA on May 21, 2000. The keynote address was given to a crowd of more than 1,000 people by the Assistant Secretary, Dan Reicher, who also helped "flip the switch" officially starting the turbine blades. Additional presentations were made by representatives from the project partners: GreenMountain.com, National Wind Power and Nordex USA. Special guests included a Congressional District director, Pennsylvania House Representative from Somerset County and a Pennsylvania Senate Representative. The dedication of the wind farm, which will generate enough electricity to supply the annual requirements of approximately 2,500 average Pennsylvania homes, included a tour of the base of one of the eight turbines. The wind power from this farm will be included the electricity blend of GreenMountain.com's "Green-E" products being sold in Pennsylvania and New Jersey.

UPCOMING WIND POWERING AMERICA WORKSHOPS (please also see calendar, pg. 6)

- C Midwest Wind Workshop (June 16). One-day workshop in Madison, Wisconsin, for a varied audience of utilities in the Midwest that have done wind energy, utilities that haven't done wind energy, energy and environmental advocates, and policy makers. The dialog will be focused on the direction wind energy development is heading in the Midwest and the steps some states and utilities are taking.
Contact: Lisa Daniels, Windustry Project
(615) 270-7161
- C Department of Defense Wind Workshop (TENT: June 16). The Department of Defense has queried AWEA to discuss holding a one-day workshop on wind and opportunities for DOD facilities to either build wind capacity or purchase wind-generated power. The workshop would be held at Ft. Belvoir in Northern Virginia.
Contact: Randy Swisher, AWEA
(202) 383-2500
- C Montana Wind Workshop (TENT: June 29). One-day workshop in Bozeman, Montana, sponsored by the Montana Renewable Energy Association, the State of Montana Department of Environmental Quality and Montana Power to explore opportunities for wind development in Montana. Team Wind will support and attend the conference and provide general wind power briefings and an overview of the Wind Powering America initiative.
Contact: Steve Palomo, Denver Regional Office
(303) 275-4838
- C Kansas Wind Workshop (July 24, 2000). One-Day workshop at Kansas State University in Manhattan, Kansas, sponsored by the Kansas Corporation Commission, Western Resources, and a host of state co-sponsors. Goal of workshop is to provide wind education and to promote large and small-scale wind development in Kansas. Team Wind will support and attend the conference and provide general wind power briefings and an overview of the Wind Powering America initiative. Secretary Richardson is the tentative keynote speaker for this event.
Contact: Steve Palomo, Denver Regional Office
(303) 275-4838
- C South Dakota (TENT: late Summer/Fall). One-day workshop to be sponsored by South Dakota PUC, the National Wind Coordinating Committee, DOE Wind Powering America Initiative, and NREL. WAPA, SD Municipal Utilities, rural coops, Northern States Power; Senators Daschle, Johnson; COUP (Bob Gough); Windustry Project (Lisa Daniels); American Wind Energy Association, Midwest clean energy group representatives and wind companies, local economic development representatives, and state and national elected officials. The goals are to: highlight current South Dakota and regional work on wind resource assessment, project development, wind products and markets, and transmission issues; show the perspectives of business, government and non-profit sector stakeholders; identify opportunities and

barriers; create consensus on realistic actions that encourage wind development; and improve long-term working relationships among key stakeholders.

Contact: Steve Palomo, Denver Regional Office
(303) 275-4838

- C Mid-Atlantic Region WPA Strategic Planning Meeting (TENT: August). Plans are underway for a Philadelphia Regional Office-sponsored Mid-Atlantic Regional Wind Powering America Strategic Planning Meeting. WPA staff is working with NREL and regional stakeholders to plan the meeting, at which regional strategy will be developed for achieving the goals of the WPA initiative. Specifically, focus will be on aggregating Federal loads for wind power purchases and engaging electric service providers with the wind community to assist in creating a sustainable market for wind power in the region. The meeting is tentatively scheduled for August in Philadelphia. Staff also displayed a wind turbine demonstration, WPA national brochures and WPA Pennsylvania fact sheets at the heavily attended 30th annual EarthFest concert in Philadelphia on April 22, 2000.

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- C Puerto Rico Wind Workshop (TENT: Fall 2000). The Atlanta Regional Office WPA contact is working with Puerto Rico's State Energy Office Director Felix Mariani to discuss a possible Puerto Rico Wind Workshop, possibly in conjunction with DOE's International Office, which focuses on Caribbean Basin issues. Director Mariani and a staff engineer will be visiting wind sites in Iowa under sponsorship of NASEO. Jim Powell, Director of the Atlanta Regional Office will accompany the Puerto Rico officials who will also visit NREL wind laboratories. Also did follow up with Puerto Rican officials that attended WindPower 2000, including Tony Torres of the Enron Caribbean Basin & Abner Anazgasty of the Puerto Rican Electric Power Authority PREPA). PREPA, which supplies electricity to customers on the island, is working with Enron to build a 30 MW wind farm on the island.

Contact: Dwight Bailey, Atlanta Regional Office
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- C Utah (TENT: late Summer/Fall). One-day workshop to be sponsored by the Utah State Energy Office, WAPA, DOE Wind Powering America Initiative, NREL, local utilities, and other stakeholders to host a wind workshop. Goals of workshop will be to highlight current regional work on wind resource assessment, project development, PacificCorp Green Power program, Fed and State government green purchase opportunities, transmission issues, and to create consensus on realistic actions that encourage wind development; and improve long-term working relationships among key stakeholders.

Contact: Steve Palomo, Denver Regional Office
(303) 275-4838

- C Oklahoma (TENT: Spring, 2001). Discussions are underway with Oklahoma officials to host a wind workshop in spring of 2001 in conjunction with the Wind Powering America initiative. Oklahoma State University is taking the lead on organizing the workshop, with support from state officials and WPA. Oklahoma has a strong wind resource in the central/western part of the state, as well as key Federal facilities and Native American lands.

Contact: Steve Palomo, Denver Regional Office
(303) 275-4838

WPA FOCUS: STRATEGIC FOCUS UPDATES

Federal Facilities/Wind Power

Oak Ridge Laboratory Wind Power Purchase. The Atlanta Regional Office's Wind Powering America team supported efforts by the Federal Energy Management Program to assist Oak Ridge National Laboratory to purchase wind generated power from the Tennessee Valley Authority. This is believed to be the first actual purchase of wind generated power by a DOE laboratory using new vehicles for procurement of wind power.

Chicago Area Federal Laboratories. The Chicago Regional Office, Chicago Operations, FEMP, NREL, and Argonne and Fermi Laboratories met to explore opportunities to green the labs and other federal facilities with wind power, possibly supplied from generation on Native Americans in the Dakotas. The short-term requirement for 7-month contract seems to preclude anything except APX type purchases. They are shooting for lowering their energy cost below \$.04/kWh and are willing to pay \$.01 premium for green in the range of 1-3% of their total. Further discussion in anticipation of 2001 purchase of green will be required if wind is to be included in their mix. The concept of separating the green element from their bulk purchase, and use the green credits seems worthy of further discussion. WPA team will follow up with FEMP team and the Labs.

Preliminary Wind Design for GSA Facility in Maryland. With the help of Bergey Wind Power, Philadelphia Regional Office WPA staff performed a feasibility assessment of a potential small wind project on Federal land in Maryland. The results were not promising, as a payback would essentially never take place. Staff will meet with GSA and provide results, then recommend identifying more feasible sites in the region.

Rural Economic Development

Native Americans. The South Dakota intertribal Council on Utility Planning (ICOU) met at NWTC following a tour of Colorado's Ponnequin wind farm. Representatives of Rosebud and Pineridge Reservations dominated the group. Subsequently, Bob Gough, the ICOU secretary is proposing a wind farm, jointly funded by ICOUPO tribes to supply green electricity to federal loads in South Dakota as well as Chicago.

State Policies

Arizona. Larry Flowers met with Arizona State Energy Office and Southwest's Andy Kruse to discuss wind energy and Arizona's RPS. Although there is 2-5 GW of wind resource potential and 300 MW (wind equivalent) Federal load, the RPS has some confusing language associated with solar capacity requirements. Arizona's State Energy Office will look into RPS limitations on wind development prior to any WPA efforts to aggregate federal. Related to this, Flowers met with LWFR's Rick Gilliam who is working with stakeholders in AZ on implementation of the RPS. He believes Tucson Electric is very interested in including wind in their green offering.

Colorado. Wind Powering America team members are working with Colorado state air officials on ways to include wind purchases in their permitting and enforcement processes. We will be piloting several of these solutions in the next several months.

Outreach

Alaska. Brian Parsons gave a presentation on the Wind Powering America initiative at a Utility Wind Interest Group meeting in Anchorage, Alaska. Curtis Framel also gave a presentation on the opportunity for wind power purchases by federal facilities through electricity load aggregation.

New Jersey Wind Powering America Planning Meeting. Philadelphia Regional Office staff coordinated a New Jersey WPA Planning Meeting on April 25, 2000. New Jersey electric utilities have recently been deregulated and are expected to have a large renewable energy fund through a Societal Benefit Charges program available later this year. Participants in the meeting/conference call included representatives from Conectiv, Community Energy Inc., a potential New Jersey community-based non-profit group and AWS Scientific Inc. The American Wind Energy Association and the New Jersey state energy office were unable to attend but have been providing input. Short-term plans include gathering accurate wind resource data for the southern coast of NJ, identifying a list of feasible sites and continuing to build the partnership.

New York/Long Island. On behalf of the Boston Regional Office, WPA Co-chair Phil Dougherty gave an overview of DOE wind program and the WPA initiative at a community meeting held to consider a proposal for a wind project on the east end of Long Island. The Long Island Power Authority is proposing to build a three turbine project on state-owned land near the town of East Hampton. WPA team has provided technical guidance to LIPA as well as wind related materials as part of our initiative promotion and outreach efforts. The Boston Regional Office has successfully worked with Long Island officials on a wide-range of renewable and energy efficiency programs.

Defining State Priorities. Wind Powering America co-chairs Larry Flowers and Phil Dougherty held a conference call to begin exploring state priorities in light of federal aggregation opportunities and current state policy activities. The group noted that of particular interest are NM, PA, MA, the northwest, the Dakotas, and IL. Selected opportunities exist in TX, MT, NY, WV, and HI. These inputs will be combined with other regional opportunities and reviewed with the FEMP team to select our Federal loads replication priorities.



The Wind Powering America Team prepares to scale a 750-kW Zond Turbine (left).

The Wind Powering America Team touring Enron's 2-MW Turbine (right).

WIND POWERING AMERICA CALENDAR

June

June 4-8	NASUCA Mid-Year Meeting, Portland, ME
June 6-7	Empowerment Zones, Denver, CO
June 8-9	DOE/EPA Seattle Meeting
June 12-14	APPA National Conference, Orlando, FL
June 16	Department of Defense Wind Energy Meeting, VA (TENT)
June 16-18	Midwest Renewable Energy Fair, Madison, WI
June 17-21	SOLAR 2000, Madison, WI
June 21	Mid-Atlantic Regional Administrators Meeting (DOE, GSA, EPA), Phila. (TENT)
June 22-23	NCSL, Denver, CO
June 23	Legislators, ND
June 26-29	NRECA Summer Board Meeting, Arlington, VA
June 29	Montana Wind Workshop, Bozeman, MT (TENT)

July

July 13	WAPA Green Power Choice Workshop, Aspen, CO
July 15-16	Tehachapi Wind Fair, Tehachapi, CA
July 17-19	DOE Wind Subcontractors Review Meeting, Broomfield, CO
July 23-28	GlobeEx 2000, Las Vegas, NV
July 23-27	NARUC Summer Meetings, Los Angeles, CA
July 24	Kansas State University Wind Energy Conference
July 24-Aug. 4	Solar Energy International's Wind Power Workshop, Carbondale, CO
July 25	NWCC Business Meeting #22, Manhattan, KS
July ??	South Dakota Wind Energy Development Meeting (TENT)
July ?	NREL Subcontractor Review Meeting

August

August 2-4	FEMP/BPA Electric Revolution Panel
August 7-8	5 th Annual Green Power Marketing Conference, Denver, CO
August 21-23	Energy 2000, Pittsburgh, PA (FEMP Workshop and Expo)
August 23-24	IEEE SCC21 P1547 Standard Development, Golden, CO
August ?	Mid-Atlantic Regional Wind Powering America Meeting

September

September 7-8	WPA/Seattle Regional Office Stakeholder Meeting, San Diego, CA
September 10-13	NASEO Annual Conference, Redondo Beach, CA
September 14	AWEA Board Meeting, Albany, NY
September 16	NASEO, CA
September 21	NWCC Business Meeting #23 Location TBA
September 25-26	Air Regulators
September 25-26	WPA, PA
September 28-29	WPA/Seattle Regional Office Stakeholder Meeting, Portland, OR
September ?	UWIG/TVP
September ?	South Dakota Wind Meeting (TENT)
September ?	Utah Wind Workshop (TENT)

October

October 23-28	Solar Energy International's Wind Power Workshop, San Juan, WA
October 30-Nov. 1	Third Annual Earth Technologies Forum, Washington, DC

November

November 14-16	Power-Gen Conference, Orlando, FL
November ?	Puerto Rico Wind Workshop (TENT)

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WHAT IS WIND POWERING AMERICA?

The Wind Powering America Initiative (WPA) is a regionally based effort to increase the use of clean wind energy in the United States over the next two decades. The Initiative challenges the nation to meet five percent of its electricity needs by the year 2020 with wind power, triple the number of states with significant wind power capacity, and increase the Federal government's use of wind-generated electricity to five percent by 2010.

Wind Powering America will help meet the growing demand for clean energy and help establish new sources of income for American farmers, Native Americans and other rural landowners. The initiative is coordinating the efforts of a broad range of stakeholders to catalyze wind power development on a regionally tailored basis, and is leveraging these efforts through the technical support capabilities available through the Wind Energy Systems program.

Wind Powering America Co-chairs:

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Lawrence Flowers, Technical Director, National Renewable Energy Laboratory (303) 384-6910

Information on wind power and the Wind Powering America initiative is available at <http://www.eren.doe.gov/windpoweringamerica>. Public comments will be taken for the next several months and incorporated into the initiative's final action plan.

ABOUT THIS NEWSCAST

We solicit your comments on the information attached and the format used. If you would like more information, contact Michelle Priestley at mpriestley@tms-hq.com or by phone at (301) 670-6390.
